

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Addiese: COMMISSIONER FOR PATENTS P O Box 1450 Alexandra, Virginia 22313-1450 www.wepto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/561,768	03/23/2006	Yury Gogotsi	DXYC-0039 / 03-0501D	1617
WOODCOCK	7550 10/04/2010 EXA		MINER	
CIRA CENTRE, 12TH FLOOR 2929 ARCH STREET			HENDRICKSON, STUART L	
	IA. PA 19104-2891		ART UNIT	PAPER NUMBER
	,		1793	
			MAIL DATE	DELIVERY MODE
			10/04/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	
10/561,768	GOGOTSI ET AL.	
Examiner	Art Unit	
Stuart Hendrickson	1793	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,

WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed

earned patent term adjustment.	See 37 CFR 1.704(D).	

	- If NO - Failu Any	SIX (6) MONTH'S from the mailing date of this communication. period for reply is specified above, the maximum statutory pend will apply and will expire SIX (6) MONTH'S from the mailing date of this communication, ret to reply within the set or extended period for reply will, by statute, cause the application to become ABAMDONED (38 U.S.C., § 133). reply vaccined by the Office later than there months after the mailing date of this communication, even if timely filed, may reduce any ed patent term adjustment. See 37 CFR 1.704(b).			
Sta	itus				
	1)🛛	Responsive to communication(s) filed on 10 September 2010.			
	2a)⊠	This action is FINAL. 2b) ☐ This action is non-final.			
	3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is			
		closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.			
Dis	posit	ion of Claims			
	,	Claim(s) 1,2,4-6,8-15 and 17-20 is/are pending in the application.			
		4a) Of the above claim(s) is/are withdrawn from consideration.			
		Claim(s) is/are allowed.			
		Claim(s) <u>1, 2, 4-6, 8-15, 17-20</u> is/are rejected.			
		Claim(s) is/are objected to.			
	8)□	Claim(s) are subject to restriction and/or election requirement.			
Αp	plicat	ion Papers			
	9)	The specification is objected to by the Examiner.			
	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.				
		Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).			
	_	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).			
	11)∐	The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.			
Pri	ority ı	under 35 U.S.C. § 119			
	12)[Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).			
	a)	☐ All b) ☐ Some * c) ☐ None of:			
		 Certified copies of the priority documents have been received. 			
		2. Certified copies of the priority documents have been received in Application No			
		3. Copies of the certified copies of the priority documents have been received in this National Stage			
		application from the International Bureau (PCT Rule 17.2(a)).			
	* 5	See the attached detailed Office action for a list of the certified copies not received.			
Atta	chmen	nt(s)			
_	_	ce of References Cited (PTO-892) 4) Interview Summary (PTO-413)			
		ce of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date Paper No(s)/Mail Date Paper No(s)/Mail Date			
3) L		mation Disclosure Statement(s) (PTO/SB/06) 5) \ Notice of Informal Patent Application or No(s)/Mail Date 6) \ Other:			

Application/Control Number: 10/561,768

Art Unit: 1793

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1, 4-6, 8, 9, 11-15, 17, 19, 20 are rejected under 35 U.S.C. 103(a) as obvious over Leis article.

Leis teaches on pg. 2043-2044 reacting AIC and halogen gas at several temperatures. The teaching of Ti, Si carbide is noted. No difference is seen in the product porosity. As to claim 20, using the intervals of 100 degrees is obvious to better characterize the materials. The claimed verbiage is not taught, however no differences are seen since the claims permit freely choosing small differences in temperature to get essentially the same result. In fact, the claims (other than 20) read upon an attempt to duplicate an experiment but having a small unavoidable minor temperature fluctuation between runs.

Claims 1, 2, 4-6, 8-15, 17-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Leis taken with El-Raghy.

Leis does not teach the compound of claim 2. El-Raghy teaches it as a composite of TiC and SiC. Using it as a source is an obvious expedient to make the desired carbon, noting that Leis teaches carbides as useful materials in the introduction.

Claims 1, 4-6, 8-15, 17, 19, 20 are rejected under 35 U.S.C. 103(a) as obvious over Boehm article.

Page 149 teaches narrow-pore distribution carbon made from reacting TaC with at 500C. The results of several different temperatures are plotted and correlated. As to claim 20, using the intervals of 100 degrees is obvious to better characterize the materials. The claimed verbiage is not taught, however no differences are seen since the claims permit freely choosing small differences in temperature to get essentially the same result. In fact, the claims (other than 20) read upon an attempt to duplicate an experiment but having a small unavoidable minor temperature fluctuation between runs.

Application/Control Number: 10/561,768

Art Unit: 1793

Claims 1, 4, 6, 8-14, 17, 19, 20 are rejected under 35 U.S.C. 103(a) as obvious over Mohun 3066099.

The reference teaches, especially in col. 6, 10, 35 and 36 heating SiC with chlorine at various temperatures to make a microporous material. No difference is seen in the pore distribution. The claimed verbiage is not taught, however no differences are seen since the claims permit freely choosing small differences in temperature to get essentially the same result. In fact, the claims (other than 20) read upon an attempt to duplicate an experiment but having a small unavoidable minor temperature fluctuation between runs.

Applicant's arguments filed 3/3/10 have been fully considered but are not persuasive.

The references provided have different experiments at different temperatures which yield essentially the same results. Thus, these diverse runs at large and deliberate temperature differences are enough to knock out patentability. Once this hurdle is crossed, then applicant can face the challenge of minor temperature fluctuation. See also remarks of last office action.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication should be directed to examiner Hendrickson at telephone number (571) 272-1351.

/Stuart Hendrickson/ Primary examiner Art Unit 1793